## FenSens

New Car Technology For Any Car

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Story





### **Problem**

- Availability 80% of cars on the market today do not have rear obstacle sensors or cameras.
- Safety Backover accidents cause 210 deaths and 15,000 injuries each year. Children under 5 account for 31% of fatalities<sup>1</sup>.
- Cost Average fender bender cost\* is \$2,995 to \$9,867 depending on make and model plus increased insurance premiums<sup>2</sup>. This leads to over \$4B in damage each year.





## **Smart Wireless Parking Device**



### **Easy to Install**

5 minutes to install and requires nothing more than the included screwdriver & security screws. No wires!



### Simple to Use

Connects to your Android or iOS smartphone and gives you visual, audible and vibration feedback.
Works immediately when car backs up, nothing required from the driver.



#### **Affordable**

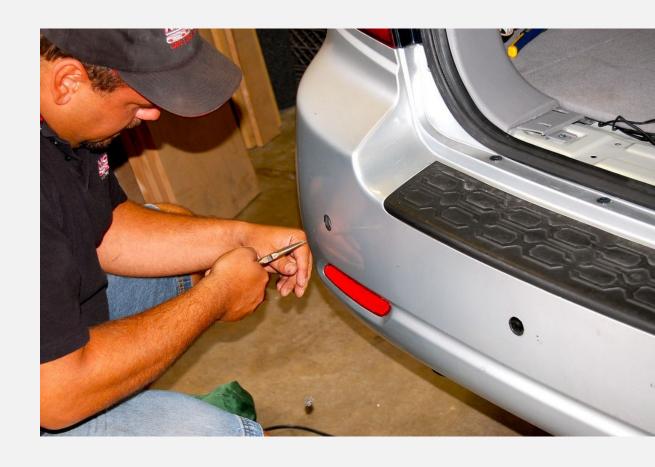
Lower cost than alternative options.

New car technology made affordable and available for all car drivers

This slide represents management opinion and is meant for illustrative purposes. It does not represent the scope of competition in the marketplace, nor does it represent guarantees of future results, levels of activity, performance, or achievements.

## **Current Options**

- Dealership Add-ons May cost an extra \$2,000 to \$3,000 and need to be added at time of purchase. 10-20% of vehicle's value is too expensive for used cars.
- Aftermarket Can cost hundreds to thousands between purchasing the device and paying for installation. This applies to many of the automotive accessories currently available.
- Sonline Can be unreliable and may require running wires through your car to the center console.



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## **Current Options**

	Easy to Install	Smartphone Capable	Portable	Affordable
Fensens	<b>~</b>	<b>~</b>	<b>~</b>	
Dealerships				
Aftermarket				
Online				

## We believe the current options are too expensive, lack features, and are too difficult to install and use regularly.

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## **Problem**

1.9M +

32%

rear end crashes in 2014<sup>3</sup>

of all crashes are rear end crashes<sup>3</sup>

Rear view cameras and sensors can save up to 57% of backup related accidents.









## **Target Customer**



#### **Urban Dwellers**

- Live in the city
- Technologically adept
- No time for custom installation
- Time & Money is precious
- Can't install aftermarket themselves
- Soccer moms/dads



#### **New Drivers**

- Parallel parking aid
- Helps in reversing
- Safe driving at critical learning stage
- Peace of mind for parents



#### **Commercial**

- Construction workers Transportation incidents
   is the leading cause of
   workplace deaths,
   responsible for 1,984 or
   41% of all job fatalities in
   2014.
- Large vehicles with drivers that can't see behind

## **Business Plans**

## Phase I

- Online
- Retail (Secondary Market)
- Insurance (Secondary Market)
- Commercial (Tertiary Market)
- Launch series of connected car products integrated through apps.

## Phase II

- Amazon Dash For The Car (Platform)
  - Order mechanics, call-for-help, or other SaaS
  - Integrate with carfit, Vinli, Hum
  - Platform for interconnecting and managing automotive IoT devices
- Data SaaS (Car health, mileage, insurance data)
- Autonomous vehicle conversion kits

Retails at \$150 leveraging unique IP. Eventually we plan to move into a SaaS model to provide data and services through more connected car accessories.

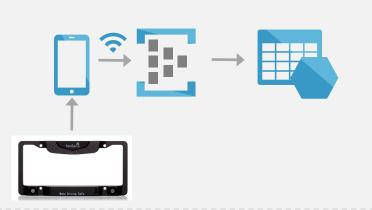
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## Going Forward: Big Data SaaS Strategy

#### **Initial Solution Architecture**

#### V2 of App Design

Architecture for V2 of App



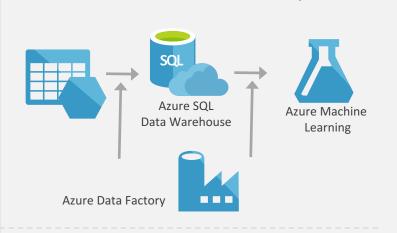
#### Collect Data

- Use latent storage on the cellphone to capture back-up readings from sensor array
- When phone reaches WiFi, data from FenSens uploaded to Azure via event hub
- Upload data & events into Azure Blob Storage for future analysis

#### **Analytical Prediction**

#### After \$5M Annual Run-Rate

Data Analytics Architecture



#### Analyze in Azure using Cortana Intelligence Suite

- · Load data into SQL Azure database
- · Clean data of missing records and errors
- Interpolate missing record
- · Confirm completeness and consistency of data
- Join relative datasets in Azure Machine Learning for analysis & prediction
- Evaluate camera and sensor analytics opportunities

#### **Data Monetization**

#### After \$5M Annual Run-Rate

Monetize using PowerBI Embedded



#### Expand & Better Monetize Existing Channels

- Market predictive failure data to channel partners in order to facilitate highly targeted cross-sell / upsells
  - Example: muffler sales personalization experience through AutoZone channel
- Engage with Insurance companies to provide safe driver bonuses and discounts
  - Example: Allstate safe driver discount
- Provide useful intelligence back to user base
- Discover other opportunities for platform monetization

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## **Team**



Andy Karuza
CEO



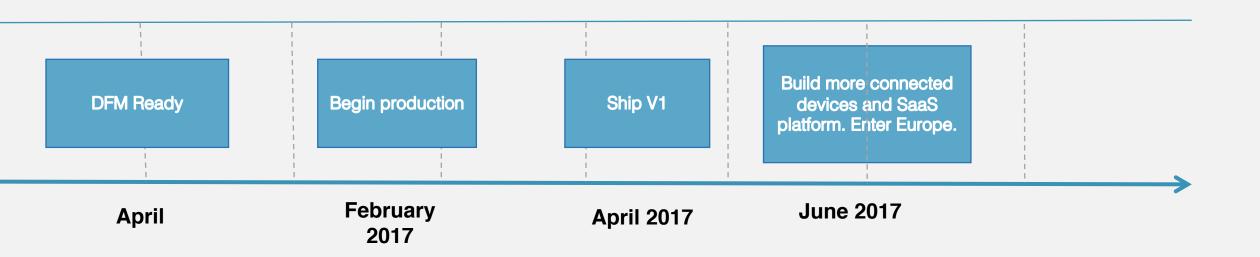
Anton Gubarenko CTO



Henry Wong

40+ years of experience with multiple product launches in consumer technology and software

## **Roadmap -> Success Story**



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## 3 New Products In Pipeline







## Future Plan: Move into autonomous vehicle conversion kits and SaaS strategy around product network data and services.

These pictures of new products represent future, rather than current offerings, and are meant for illustrative purposes. They do not represent guarantees of future results, levels of activity, performance, or achievements.

## **Traction**

#### FenSens."

- LOIs from RearviewSafety.com
- Interest from retailers globally including Best Buy, As Seen On TV, and many more\*.
- \$187K+ raised from Indiegogo Campaign
- 4 provisional patents
- First place in startup weekend and alumni from Wearable IOT World Accelerator in San Francisco
- \$75,000 grant from Arrow Electronics



As seen on











**GIZMODO** 









DIGITAL TRENDS





<sup>\*</sup>FenSens does not currently have signed agreements in place with these retailers. This slide represents management opinions and does not represent guarantees of future results, levels of activity, performance, or achievements.

## FenSens<sup>11</sup>

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W: FenSens.com

- facebook.com/FenSens

# FenSens<sup>1</sup> Extras

## **Product Images / Screenshots**









## Sources

- 1.) "NHTSA Announces Final Rule Requiring Rear Visibility Technology ."*NHTSA Announces Final Rule Requiring Rear Visibility Technology*. N.p., 31 Mar. 2014. Web. 25 Mar. 2016. Link
- 2.) "Misaligned Bumpers Mean More Costly Damage." *Misaligned Bumpers Mean More Costly Damage*. N.p., 2 Dec. 2010. Web. 25 Mar. 2016. Link
- 3.) "Auto Crashes." III. N.p., Mar. 2016. Web. 25 Mar. 2016. Link